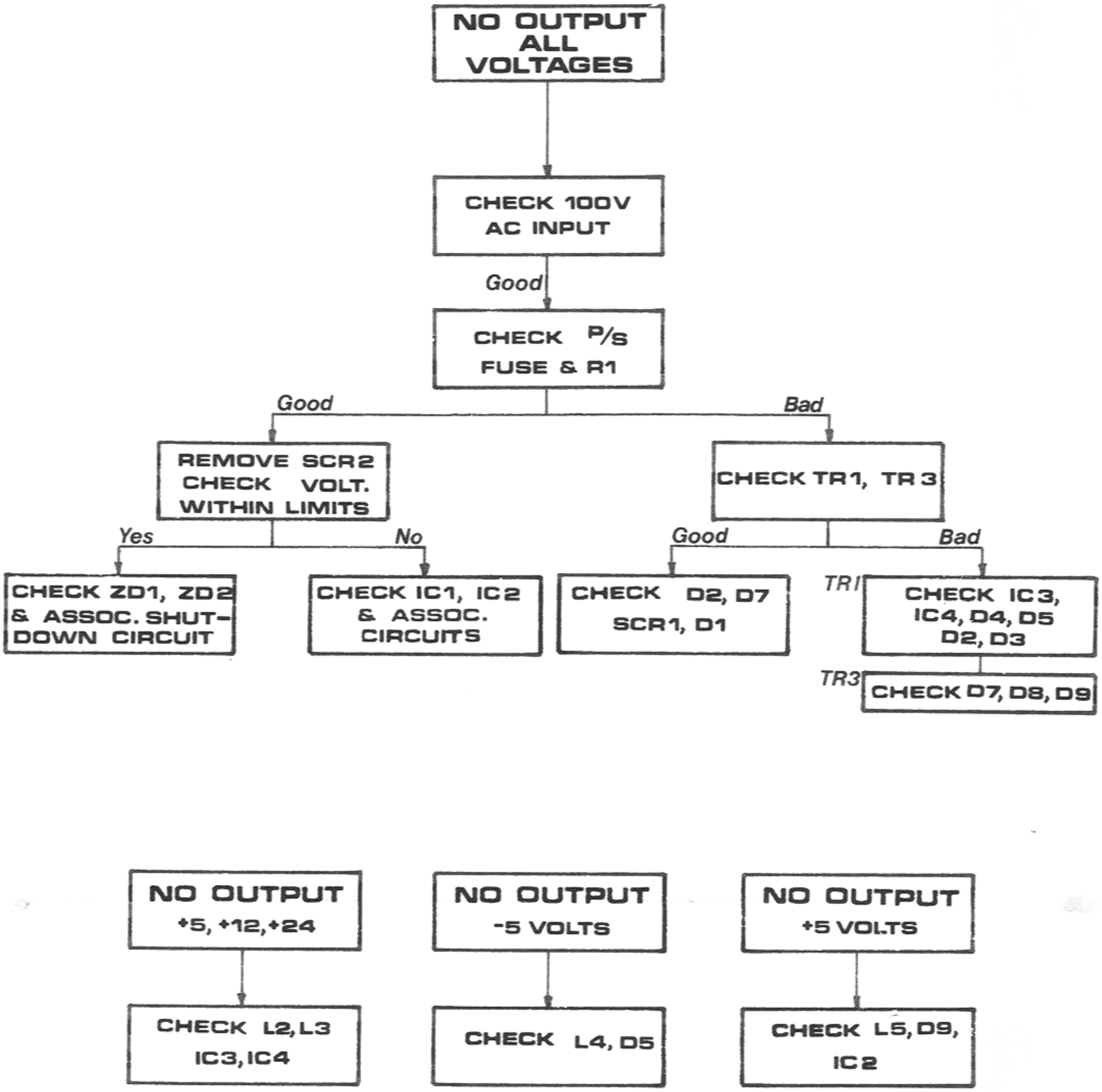
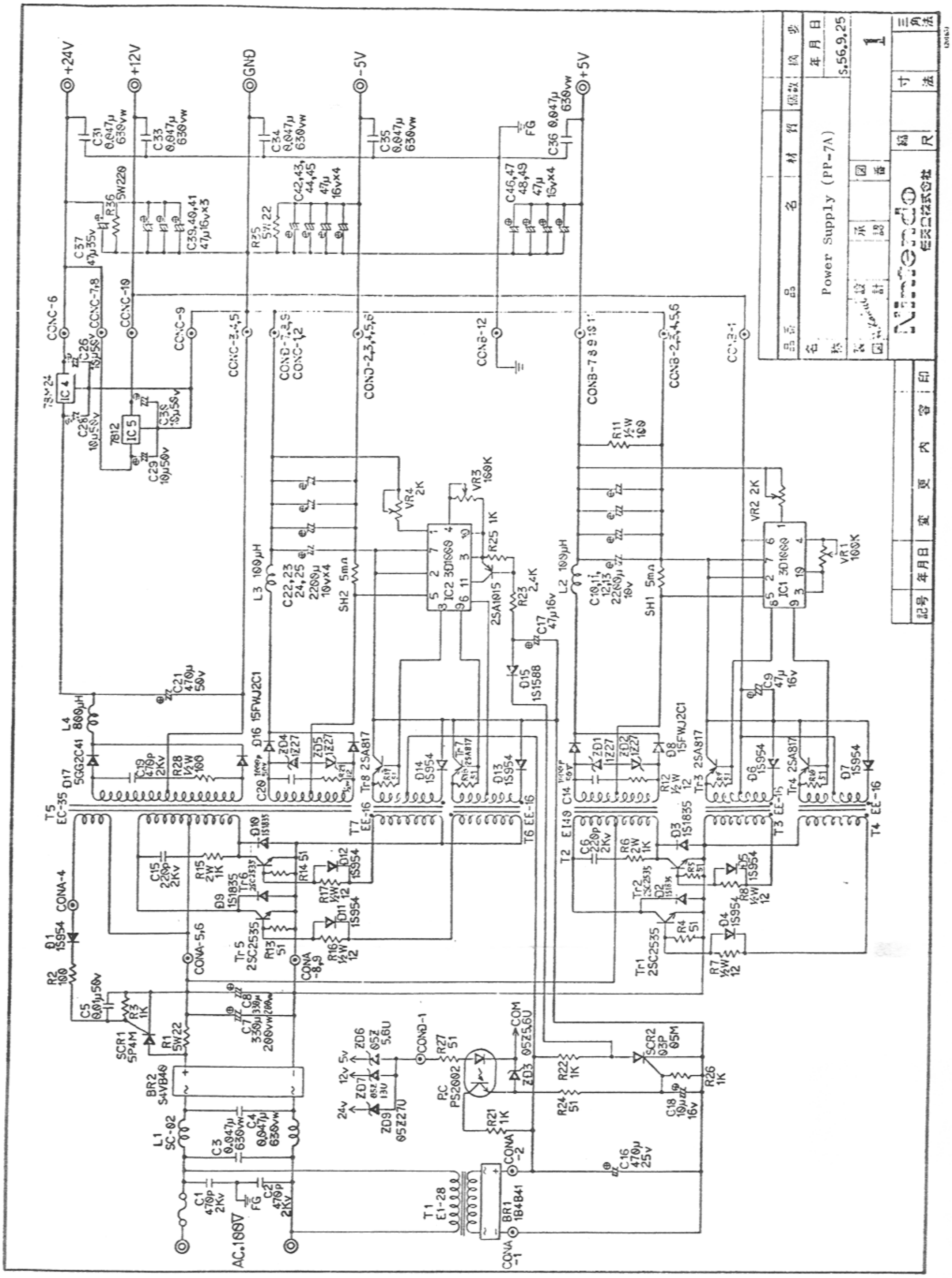
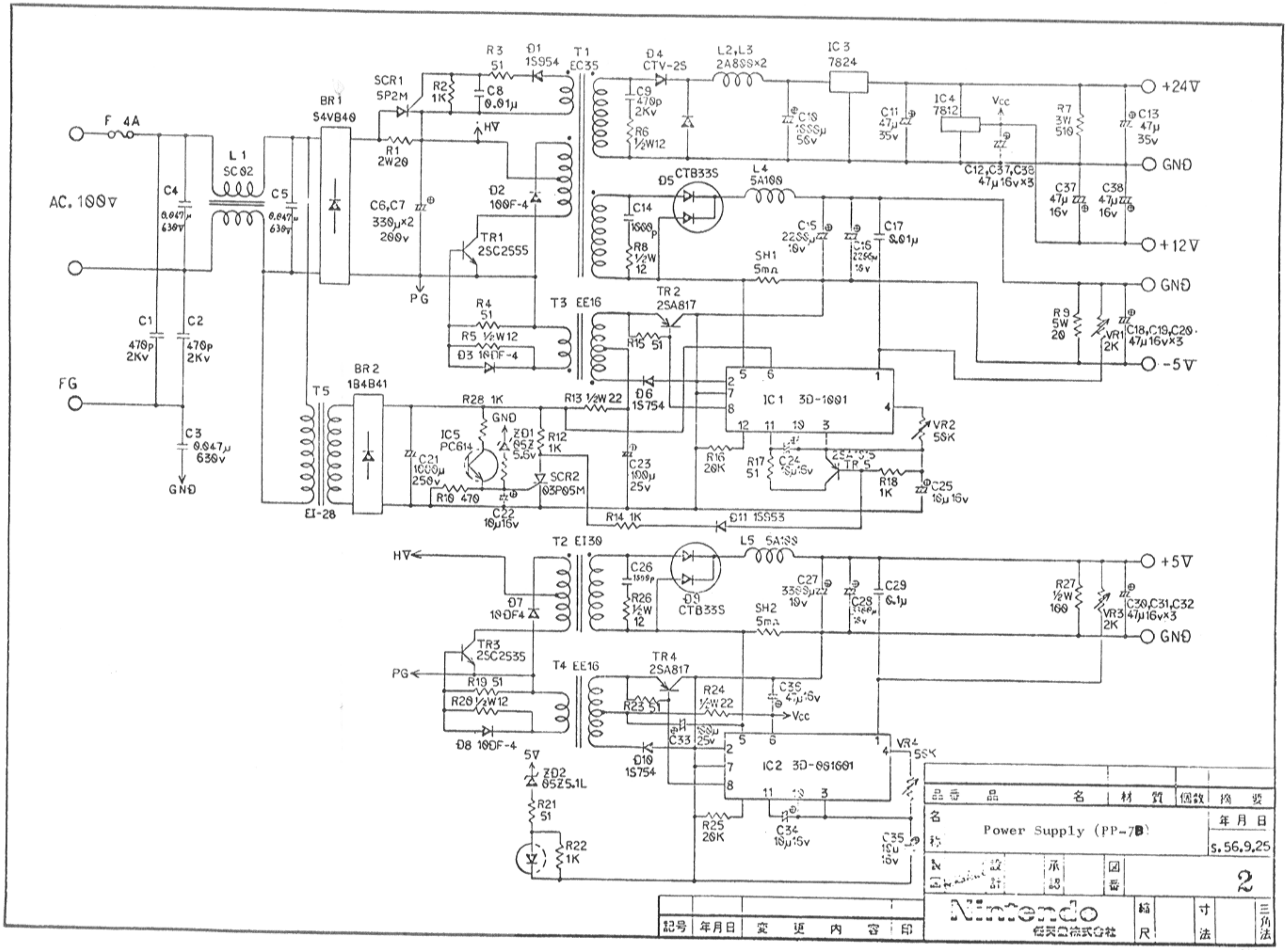
Trouble Shooting chart for PP-7B



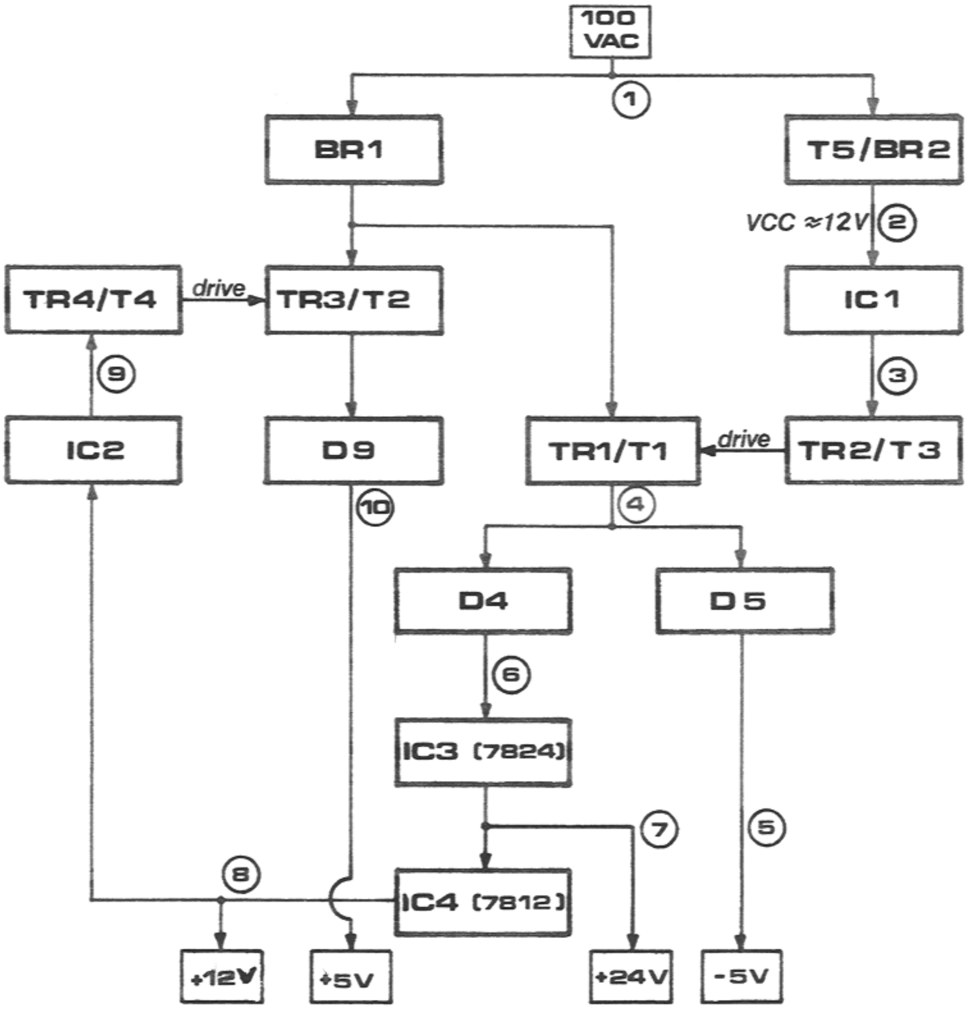
POWER SUPPLY SCHEMATICS




AC. 100V
F 4A
FG
C1 470p 2Kv
C2 470p 2Kv
C3 0.047μ 630v
GND
C4 0.047μ 630V
L1 SC02
C5 0.047μ 630v
BR1 S4VB40
SCR1 SP2M
R1 2W20
R2 1K
R3 51
C8 0.01μ
D1 1S954
HV
C6,C7 330μ×2 200v
D2 100F-4
TR1 2SC2555
PG
R4 51
R5 1/2W12
D3 10DF-4
T1 EC35
T3 EE16
T5
EI-28
BR2 1B4B41
R28 1K
IC5 PC614
C21 1000μ 250v
R10 470
C22 10μ16v
ZD1 05Z 5.6v
R12 1K
SCR2 03P05M
R13 1/2W22
D6 1S754
C23 100μ 25v
R14 1K
D11 1S953
D4 CTV-2S
C9 470p 2Kv
R6 1/2W12
L2,L3 2A800×2
C10 1000μ 50v
IC3 7824
C11 47μ 35v
IC4 7812
Vcc
C12,C37,C38 47μ16v×3
R7 3W 510
C13 47μ 35v
+24V
GND
D5 CTB33S
L4 5A100
C14 1000p
R8 1/2W 12
C15 2200μ 10v
C16 2200μ 16v
C17 0.01μ
SH1 5mΩ
C37 47μ 16v
C38 47μ 16v
+12V
GND
TR2 2SA817
R15 51
IC1 3D-1001
R16 20K
R17 51
C24
TR5
R18 1K
VR2 50K
C25 10μ16v
R9 5W 20
VR1 2K
C18,C19,C20 47μ16v×3
-5V
HV
T2 EI30
D7 10DF4
TR3 2SC2535
PG
R19 51
R20 1/2W12
D8 10DF-4
5V
ZD2 05Z5.1L
R21 51
R22 1K
T4 EE16
TR4 2SA817
R23 51
R24 1/2W22
C33 100μ 25v
C36 47μ16v
Vcc
D10 1S754
IC2 3D-0S1001
R25 20K
C34 10μ16v
VR4 50K
C35 10μ 16v
C26 1000p
R26 1/2W 12
D9 CTB33S
L5 5A100
C27 3300μ 10v
C28 16v
C29 0.1μ
SH2 5mΩ
R27 1/2W 100
VR3 2K
C30,C31,C32 47μ16v×3
+5V
GND
品番 品 名 材 質 個数 摘 要
名称 Power Supply (PP-7B)
年月日 S.56.9.25
設計 承認 図番 2
Nintendo 任天堂株式会社
縮尺 寸法 三角法
記号 年月日 変 更 内 容 印

Nintendo

SWITCHING POWER SUPPLY
Block Diagram



(1) 100VAC is stepped down and rectified

(2) VCC (12VDC) is applied to IC1; starts switching

(3) IC1 switching drives TR2/T3, which in turn drives TR1/

(4) Secondary of T1 output is rectified by D4 & D5

(5) After filtering, D5 output is -5V

(6) D4 output supplies 3 terminal regulator 7824

(7) 7824 output is +24V; also drives 3 terminal regulator 7812

(8) 7812 output is +12V; also VCC for IC2

(9) IC2 switching drives TR4/T4; which in turn drives TR3/T2

(10) D9 rectifies T2 output which becomes +5V